CANADIAN DATA REPORT OF FISHERIES AND AQUATIC SCIENCES NO. 761.
(Low, G., Read, C.J., and Watson, D.S.)

ERRATA SHEET

Page iii: **ABSTRACT/RESUME is on page v.**

Page 28 **Table 33 is missing the total mean age at end of table. Mean age for WINTER is 9.0, 8.8 for SPRING and 8.9 for the TOTAL.**

Canadian Data Report of

Fisheries and Aquatic Sciences 761

October 1989

DATA FROM THE COMMERCIAL FISHERY FOR LAKE WHITEFISH, *Coregonus clupeaformis* (Mitchill), ON GREAT SLAVE LAKE, NORTHWEST TERRITORIES, 1985, 1986 AND 1987

by

G. Low, C.J. Read and D.S. Watson

Central and Arctic Region

Department of Fisheries and Oceans

Winnipeg, Manitoba R3T 2N6

This is the 40th Data Report

from the Central and Arctic Region, Winnipeg

2008-03723/

© Minister of Supply and Services Canada 1989

Cat. no. Fs 97-13/761E ISSN 0706-6465

Correct citation for this publication is:

Low, G., C.J. Read, and D.S. Watson. 1989. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1985, 1986 and 1987. Can. Data Rep. Fish. Aquat. Sci. 761: v + 51 p.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

ABSTRACT

Low, G., C.J. Read, and D.S. Watson. 1989. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1985, 1986, and 1987. Can. Data Rep. Fish. Aquat. Sci. 761: v + 51 p.

Data from the fish plant sampling program and winter fishery observations on the Great Slave Lake are presented. Production figures for whitefish and other species are shown. A total of 7480 lake whitefish were sampled for length, weight and age. Sixty-nine nets (6279 m) were observed for catch and effort during the winter fishery observation program.

Key words: catch composition; catch/effort; commercial fishing; fishery management; monitoring.

RÉSUMÉ

Low, G., C.J. Read, and D.S. Watson. 1989. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1985, 1986, and 1987. Can. Data Rep. Fish. Aquat. Sci. 761: v + 51 p.

Le rapport présente des données sur le programme d'échantillonnage à l'usine de transformation du poisson et sur les observations des pêches commerciales d'hiver dans le Grand lac des Esclaves. On y donne les chiffres de production pour la corégone et d'autres espèces. Les données sur l'âge, la longueur et le poids ont été recueillies à partir d'un échantillon de 7 840 grands corégones. Le programme d'observation des pêches commerciales d'hiver a été fait sur 69 filets (6 279 m) et portait sur les prises et l'effort.

Mots-clés: composition des prises; prise/effort; pêche commerciale; gestion des pêches; contrôle.

INTRODUCTION

Commercial fishing first began on Great Slave Lake in 1945. Since then the fishery has been monitored annually for total catch; however, few studies were conducted on the effects of exploitation on the stocks of the commercial species (Rawson 1951, 1953a; Keleher 1972; Kennedy 1956) until the 1970's.

In 1971, the Department of Fisheries began a long term stock assessment and monitoring program designed to collect information considered essential for the sound management of the Great Slave Lake commercial fishery. These programs are consistent with the recommendations of the Great Slave Lake Working Party (1969) outlined in Roberge et al. (1982).

In order to meet these objectives, a three-component field study was implemented including fish plant sampling, fishery observations and experimental gillnetting. Results of this work for the years 1972 to 1984 have been described by Bond (1974a, b, 1975a, b), Bond and Turnbull (1973), Moshenko et al. (1978, 1981), Moshenko and Low (1978a, b, 1979, 1980) Roberge et al. (1982, 1984) and Low and Read (1987).

Two components, fish plant sampling and winter fishery observations, were carried out. This report summarizes, in tabular form the data gathered from each of these two components.

STUDY AREA

Great Slave Lake lies in the southwest corner of the District of Mackenzie, Northwest Territories (Fig. 1). It is the fifth largest lake in North America, having a surface area of 27 195 km^2 and a drainage area of 985 300 km^2. Stretching 440 km from its extreme east end to the outlet of the Mackenzie River, the lake straddles two physiographic regions. The northeast shore of the north arm and the east arm lie within the Precambrian Shield and have irregular, precipitous margins. The western portion of the lake overlies the alluvial plain known as the Mackenzie Lowlands and has few islands and gently sloping shores. The rivers entering the lake from the shield are cold, clear and rapidly flowing while those entering from the south are slow flowing brown water streams laden with silt during spring and early summer. While the western basin has a maximum depth of approximately 165 m and a mean depth of 42 m, a depth of 625 m has been recorded in the east arm (Rawson 1950). Physical and biological characteristics of the lake have been described in detail by Rawson (1950, 1951, 1953a, b).

DESCRIPTION OF THE FISHERY

Great Slave Lake has been fished commercially since 1945. During the 1950's annual production of whitefish and trout averaged 2.9 million kg as the large accumulated stock was exploited. Since the 1950's commercial production of both species has decreased annually and whitefish and trout have reacted differently to exploitation (Keleher 1972). The west end of the lake is now being managed for whitefish production with minimal regard to lake trout, the latter being unable to withstand commercial gillnetting. Gillnets have been the sole means of exploitation by the commercial fishery since its inception. The legal minimum mesh size was 139 mm stretched mesh until regulation changes in 1977 allowed the use of 133 mm mesh as the legal minimum mesh size. There has been no restriction on the number of nets a fisherman may use since 1961. Almost the entire lake has been open to commercial fishing at some point in the history of the fishery, although certain areas have been closed to protect subsistence and sport fisheries (Fig. 1 and Northwest Territories Fishery Regulations 1985). The east arm of Great Slave Lake (Area VI) was completely closed to commercial fishing in 1974 and is being managed exclusively for subsistence and sport fishing (Moshenko and Gillman 1978).

There are at least 25 fish species in the lake (Keleher 1972) of which only five are of commercial importance. The major commercial species in decreasing order of importance are: lake whitefish, Coregonus clupeaformis (Mitchill); lake trout, Salvelinus namaycush (Walbaum); inconnu, Stenodus leucichthys nelma (Pallas); northern pike, Esox lucius (Linnaeus); and walleye (pickerel), Stizostedion vitreum vitreum (Mitchill). Cisco, Coregonus spp., burbot, Lota lota (Linnaeus) and longnose sucker, Catostomus catostomus (Forster) may constitute up to 40% or more of the total catch; however, they are culled on the lake due to lack of market demand.

The lake is divided into six administrative areas for management purposes and a portion of the total annual quota of 1 681 900 kg round weight of whitefish and trout is allotted to each area (Table 1). The annual quota is based on the period commencing 1 November and terminating on the following 31 October and applies to the combined catch for both the winter and summer fisheries. More detailed histories of the commercial fishery on Great Slave Lake are given by Kennedy (1956), Keleher (1972) and Bond and Turnbull (1973). The description of the winter and summer fisheries is summarized by Moshenko et al. (1978).

MATERIALS AND METHODS

FISH PLANT SAMPLING

Monthly summaries of the landings by species by administrative area were compiled from the Freshwater Fish Marketing Corporation (FFMC) sales slips by Department of Fisheries and Oceans (DFO) staff in Hay River.

The following table lists the factors used to convert various species and forms to round weight:

Species	Form	Conversion Factor
Whitefish	dressed	x 1.17
Pickerel	dressed	x 1.22
	headless dressed	x 1.39
Trout	dressed	x 1.21
	headless dressed	x 1.53
Pike	dressed	x 1.22
	headless dressed	x 1.53
Inconnu	dressed	x 1.16
	headless dressed	x 1.35

Production values presented in this report (Tables 2-8) include whitefish culls at the plant but do not include an estimate of deteriorated whitefish discarded on the lake. Fishermen cull these fish as the nets are lifted but no record is made of the numbers or estimated weight. Fish which do not meet the market size and quality requirements are further culled by graders at the fish plant and the weight is recorded on the sales slip. Cullage on the lake was not subtracted from the quota during the 1985, 1986 and 1987 seasons.

Commercial landings of whitefish were sampled from each of the six administrative areas fished during the sample periods. Sampling frequency was based on a schedule as follows:

Winter - December 1 to March 30
Summer - June 10 to July 15
Fall - September 1 to October 15

Boxes of fish were selected at random from the catches of various fishermen as they arrived at the plant. All whitefish in the box, up to a maximum of 70 fish per individual fisherman were sampled. Thus, the sample of 200 whitefish should have been taken from at least three different fishermen. An additional 10 fish were sampled to compensate for scale samples which were unsuitable for aging. The fish were measured for fork length (± 1 mm) and dressed weight (± 50 g). Scales were taken from the left side of the fish from the area just above the lateral line and below the dorsal fin.

WINTER FISHERY OBSERVATIONS

Winter fishery observations were conducted in 1986 and 1987 by DFO Fishery Officers during their regular snowmobile patrols on Great Slave Lake. Observations were recorded whenever fishermen were encountered lifting gillnets on the lake. Due to the encounter approach the fisherman's entire daily lift was not observed. Data collected represent a sub-sample of the fisherman's lift.

The number of each species caught per net was recorded as the nets were being lifted. The fishermen were then interviewed for information pertaining to the number of nets set, location and duration of the net-gang sets, mesh size, mesh depth, twine size, depth fished, type of vehicle and size of crew.

Observations were conducted from December to April in Areas IE and IW (Fig. 1). The observation program was limited to areas which were close to Hay River and were patrolled frequently. Areas IE and IW contributed 50% of winter whitefish production during the 1986 and 1987 winter seasons (Tables 6 and 7).

BIOLOGICAL DATA

The scale age of whitefish was determined by counting the number of completed annuli. That is, an age 10 fish was in its eleventh year.

Annual mortality rates (natural and fishing) were calculated using the method (all ages known) outlined by Robson and Chapman (1961). The total annual mortality is defined as the number of fish which die during a year, divided by the initial number (Ricker 1975). The right hand descending portion of a catch curve may be used to estimate annual mortality rates if the following assumptions can be met:

i) constant survival or mortality rates over the range of age classes, and with time;
ii) constant year class strength (even recruitment); and
iii) all fish beyond some age are equally vulnerable to the harvesting gear.

Ricker (1975) indicated that the modal age in the catch curve will commonly lie quite close to the first year in which recruitment can be considered effectively complete. Recruitment is defined as the addition of new fish to the vulnerable population by growth among small size categories. In our calculations, we first selected the modal age class and then chose the next older age class to be sure that all fish beyond this age are at the age of effectively complete recruitment and fully susceptible to the gear.

Data were analyzed using an Amdahl 5850 computer (University of Manitoba). The Statistical Analysis System (1982) was used to generate the length and age tables. A Hewlett Packard (model 67) programable calculator was used to calculate the survival rates.

ACKNOWLEDGMENTS

The authors wish to thank the commercial fishermen and the staff of the Freshwater Fish Marketing Corporation on Great Slave Lake for their cooperation. Special thanks to Fishery Officers K. Roberts, J. Smith, S. Blakely, D. Dechief for conducting the winter fishery observation program, providing logistic support on Great Slave Lake and assisting with biological sampling at the fish stations. The field programs were conducted by M. Puham and E. Hinkey. K. Mach and J. Kashman compiled the production figures. The report was typed by K. DeCaigny.

REFERENCES

BOND, W.A. 1974a. The Great Slave Lake commercial fishery, summer, 1973. Can. Fish. Mar. Serv. Data Rep. Ser. CEN/T-74-8: vi + 38 p.

BOND, W.A. 1974b. Data on ciscoes, burbot, and longnose suckers from Great Slave Lake, N.W.T., 1973. Can. Fish. Mar. Serv. Data Rep. CEN/D-74-3: vi + 44 p.

BOND, W.A. 1975a. Commercial fishery data from Great Slave Lake, N.W.T., 1974. Can. Fish. Mar. Serv. Data Rep. Ser. CEN/D-75-5: vi + 24 p.

BOND, W.A. 1975b. Results of an experimental gillnetting program at the west end of Great Slave Lake, N.W.T. during summer, 1974. Can. Fish. Mar. Serv. Data Rep. Ser. Tech. Rep. CEN/D-75-7: viii + 83 p.

BOND, W.A., and T.D. TURNBULL. 1973. Fishery investigations at Great Slave Lake Northwest Territories 1972. Can. Fish. Mar. Serv. Tech. Rep. Ser. CEN/T-73-7: vii + 78 p.

GREAT SLAVE LAKE WORKING PARTY. 1969. Unpublished report. 20 p. (Copy available from author, Freshwater Institute, Winnipeg, MB.)

KELEHER, J.J. 1972. Great Slave Lake: effect of exploitation on salmonid community. J. Fish. Res. Board Can. 29: 741-753.

KENNEDY, W.A. 1956. The first ten years of commercial fishing on Great Great Slave Lake. Bull. Fish. Res. Board Can. 107: 58 p.

LOW, G., and C.J. READ. 1987. Data from the commercial fishery for lake whitefish, Corregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1983 and 1984. Can. Data Rep. Fish. Aquat. Sci. 641: v + 38 p.

MOSHENKO, R.W., L.W. DAHLKE, and G. LOW. 1978. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1977. Can. Fish. Mar. Serv. Data Rep. 101: v + 30 p.

MOSHENKO, R.W., and D.V. GILLMAN. 1978. Creel census and biological investigation on lake trout, Salvelinus namaycush (Walbaum), from Great Bear and Great Slave lakes, Northwest Territorites, 1975-76. Can. Fish. Mar. Serv. Manuscr. Rep. 1440: v + 37 p.

MOSHENKO, R.W., and G. LOW. 1978a. Lake whitefish, Coregonus clupeaformis (Mitchill), from the commercial fishery of Great Slave Lake, Northwest Territories, 1975-76. Can. Mar. Fish. Serv. Data Rep. 53: iv + 16 p.

MOSHENKO, R.W., and G. LOW. 1978b. An experimental gillnetting program on Great Slave Lake, Northwest Territories, 1977. Can. Fish. Mar. Serv. Data Rep. 102: iv + 51 p.

MOSHENKO, R.W., and G. LOW. 1979. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1978. Can. Fish. Mar. Serv. Data Rep. 139: v + 29 p.

MOSHENKO, R.W., and G. LOW. 1980. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1979. Can. Data Rep. Fish. Aquat. Sci. 194: v + 29 p.

MOSHENKO, R.W., G. LOW, and C.J. READ. 1981. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1980. Can. Data Rep. Fish. Aquat. Sci. 305: v + 40 p.

NORTHWEST TERRITORIES FISHERY REGULATIONS. 1985. P.C. 1974-1106, amended P.C. 1985-2352 August 28, 1985

RAWSON, D.S. 1950. The physical limnology of Great Slave Lake. J. Fish. Res. Board Can. 8: 207-240.

RAWSON, D.S. 1951. Studies of fish of Great Slave Lake. J. Fish. Res. Board Can. 8: 207-240.

RAWSON, D.S. 1953a. The standing crop of plankton in lakes. J. Fish. Res. Board Can. 10: 224-237.

RAWSON, D.S. 1953b. The bottom fauna of Great Slave Lake. J. Fish. Res. Board Can. 10: 486-520.

RICKER, W.E. 1975. Computations and interpretations of biological statistics of fish populations. Bull. Fish. Res. Board Can. 119: 382 p.

ROBERGE, M.M., G. LOW, and C.J. READ. 1982. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchell), on Great Slave Lake, Northwest Territories, 1981. Can. Data Rep. Fish. Aquat. Sci. 335: iv + 21 p.

ROBERGE, M.M., G. LOW, and C.J. READ. 1984. Data from the commercial fishery for lake whitefish, Coregonus clupeaformis (Mitchill), on Great Slave Lake, Northwest Territories, 1982. Can. Data Rep. Fish. Aquat. Sci. 437: iv + 24 p.

ROBSON, D.S., and D.G. CHAPMAN. 1961. Catch curves and mortality rates. Trans. Am. Fish. Soc. 90(2): 181-189.

STATISTICAL ANALYSIS SYSTEM (SAS) INSTITUTE INC. 1985. SAS user's guide: Basics, 1982 edition. Cary, NC. 923 p.

SAS INSTITUTE INC. 1985. SAS user's guide: Basics, version 5 edition. SAS Institute Inc., Cary, NC. 1290 p.

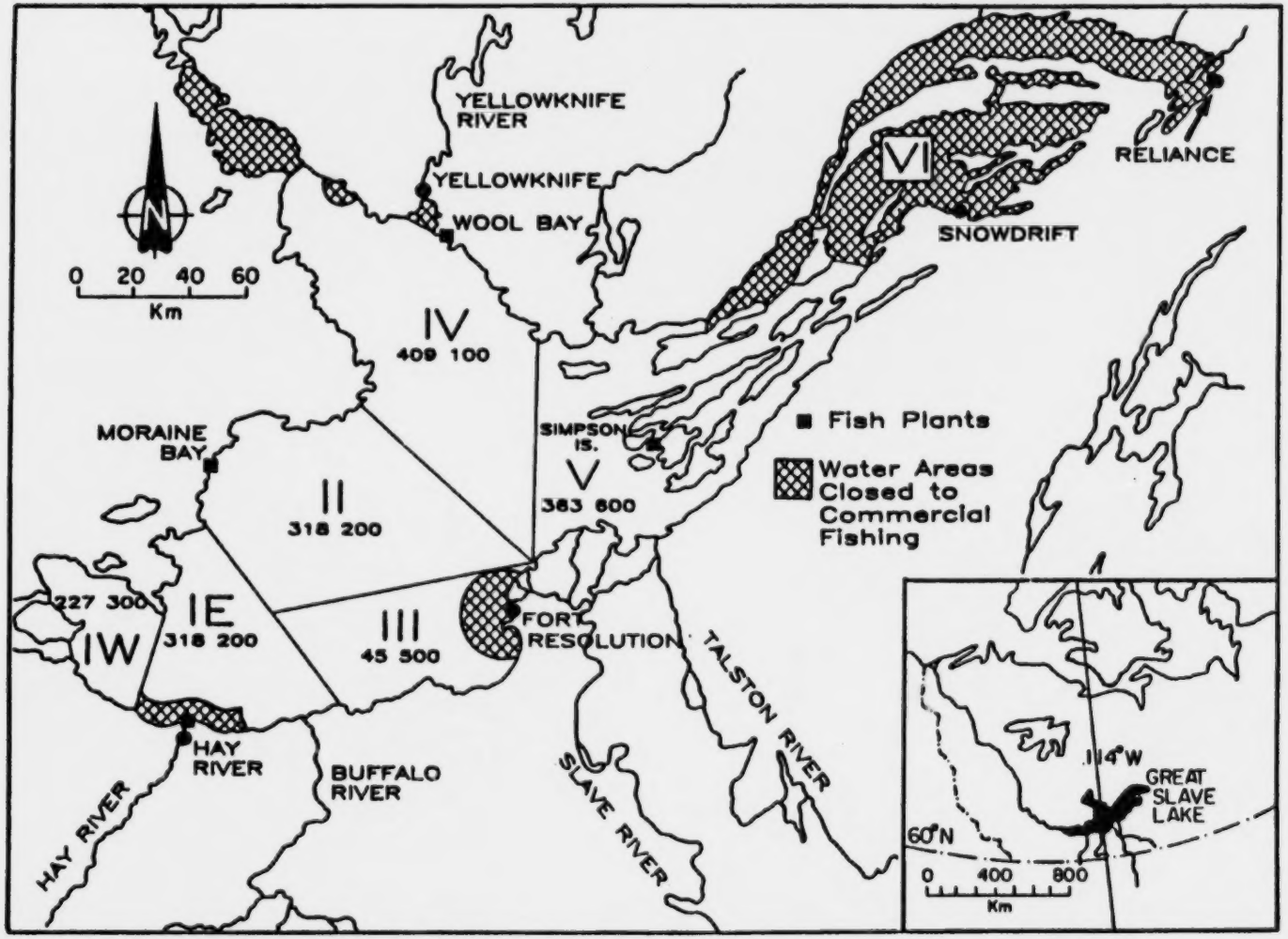

Fig. 1. Map of Great Slave Lake showing the administrative areas and quotas, areas closed to commercial fishing and the location of fish plants.

Table 1. Commercial quotas in effect on Great Slave Lake during 1976 to 1987 seasons.

Year[1]	Commercial Quota of Whitefish and Trout[1] (kg round weight)						
	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
1975-76	227 273	318 181	681 819	Nil	622 727	325 000	2 175 000
1976-77	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1977-78	227 273	318 181	318 181	Nil	409 091	272 729	1 545 455
1978-79	227 273	318 181	318 181	45 455	409 091	295 455	1 613 636
1979-80	227 273	318 181	318 181	45 455	409 091	363 637	1 681 818
1980-81	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1981-82	227 300	318 200	318 200	79 500	409 100	362 600	1 715 900
1982-83	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1983-84	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1984-85	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900
1985-86	227 300	318 200	318 200	70 000	409 100	363 600	1 706 400
1986-87	227 300	318 200	318 200	45 500	409 100	363 600	1 681 900

[1]Season runs from November 1 of one year to October 31 of the next year.

Table 2. Total production of commercial species (kg round weight) by administrative area, November 1, 1984 to October 31, 1985.

	Production from each administrative area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	221 727	138 221	115 003	16 765	163 833	220 364	875 913
Trout	6 643	3 338	3 495	75	3 750	92 293	109 594
Pike	51 045	13 552	17 111	1 842	17 839	54 059	155 448
Inconnu	7 272	17 949	216	13 589	2 768	30 192	71 986
Walleye	71	331	10	557	2 779	9 246	12 994
Total	286 758	173 391	135 835	32 828	190 969	406 154	1 225 935

Table 3. Total production of commercial species (kg round weight) by administrative area, November 1, 1985 to October 31, 1986.

	Production from each administrative area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	219 104	153 049	281 310	46 247	320 182	199 545	1 219 437
Trout	8 746	2 283	7 123	404	2 189	86 690	107 435
Pike	48 259	10 769	8 658	1 141	17 984	42 996	129 807
Inconnu	7 270	9 456	302	16 820	2 946	25 626	62 420
Walleye	49	469	18	285	5 850	5 605	12 276
Total	283 428	176 026	297 411	64 897	349 151	360 462	1 531 375

Table 4. Total production of commercial species (kg round weight) by administrative area, November 1, 1986 to October 31, 1987.

	Production from each administration area						
Species	Area IW	Area IE	Area II	Area III	Area IV	Area V	Total
Whitefish	184 226	167 903	347 816	42 124	324 569	243 726	1 310 364
Trout	17 236	5 737	13 035	575	3 429	86 857	126 869
Pike	45 486	12 763	12 189	1 007	19 801	48 066	139 312
Inconnu	5 144	13 391	2 082	16 287	3 444	33 365	73 713
Walleye	67	463	29	283	7 070	5 606	13 518
Total	252 159	200 257	375 151	60 276	358 313	417 620	1 663 776

Table 5. Production of whitefish and trout (kg round weight) from each administrative area for winter 1984-85 and summer, 1985.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	210 394	6 173	11 333	470	221 727	6 643	228 370
IE	77 157	2 434	61 064	904	138 221	3 338	141 559
II	11 383	27	103 620	3 468	115 003	3 495	118 498
III	1 594	Nil	15 171	75	16 765	75	16 840
IV	Nil	Nil	163 833	3 750	163 833	3 750	167 583
V	31 596	23	188 768	92 270	220 364	92 293	312 657
Total	332 124	8 657	543 789	100 937	875 913	109 594	985 507

Table 6. Production of whitefish and trout (kg round weight) from each administrative area for winter 1985-86 and summer, 1986.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	202 462	7 670	16 642	1 076	219 104	8 746	227 850
IE	49 307	335	103 742	1 948	153 049	2 283	155 332
II	32 370	388	248 940	6 735	281 310	7 123	288 433
III	23 286	134	22 961	270	46 247	404	46 651
IV	95 779	176	224 403	2 013	320 182	2 189	322 371
V	51 060	1 482	148 485	85 208	199 545	86 690	286 235
Total	454 264	10 185	765 173	97 250	1 219 437	107 435	1 326 872

Table 7. Production of whitefish and trout (kg round weight) from each administrative area for winter 1986-87 and summer, 1987.

Administrative Area	Winter		Summer		Total		
	Whitefish	Trout	Whitefish	Trout	Whitefish	Trout	Total
IW	167 553	16 756	16 673	480	184 226	17 236	201 462
IE	69 926	4 781	97 977	956	167 903	5 737	173 640
II	105 191	6 659	242 625	6 376	347 816	13 035	360 851
III	1 991	182	40 133	393	42 124	575	42 699
IV	94 114	1 529	230 455	1 900	324 569	3 429	327 998
V	93 383	257	150 343	86 600	243 726	86 857	330 583
Total	532 158	30 164	778 206	96 705	1 310 364	126 869	1 437 233

Table 8. Annual production of commercial species for Great Slave Lake, 1973-1987 (x 1000 kg, round weight).

Year[1]	Whitefish	Trout	Pike	Inconnu	Walleye	Total Whitefish & Trout	Total All Species
1972-73	1 004	92	155	103	17	1 096	1 371
1973-74	973	111	-	-	-	1 084	1 084
1974-75	921	99	96	95	10	1 020	1 221
1975-76	975	83	103	77	9	1 058	1 247
1976-77	1 172	108	118	86	11	1 280	1 495
1977-78	1 107	105	157	153	13	1 212	1 535
1978-79	1 065	121	129	153	6	1 186	1 474
1979-80	1 178	122	199	65	19	1 300	1 583
1980-81	1 097	85	151	43	4	1 182	1 380
1981-82	1 139	75	166	23	8	1 214	1 411
1982-83	899	61	115	16	5	960	1 096
1983-84	863	50	108	47	15	913	1 083
1984-85	876	110	155	72	13	986	1 226
1985-86	1 219	107	130	62	12	1 327	1 531
1986-87	1 310	127	140	74	14	1 437	1 665

[1] Season runs from November 1 of one year to October 31 of the next year.

Table 9. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, from Great Slave Lake, for winter 1984-85 and summer 1985.

	Winter 1984-85[3]				Summer 1985[4]		
	FFMC[1]						
Species and Form	Nov.1/84	Jan.13/85	Apr.1/85	GNWT[2]	FFMC[1]	GNWT[2]	Final Payment[5]
Whitefish (dressed)							
smokers - large	-	-	-	-	87	33	33
- medium	-	-	-	-	78	33	33
jumbo (over 1.8 kg)	100	133	100	21	72	33	33
large (1.4-1.8 kg)	89	122	89	21	69	33	33
medium (0.7-1.4 kg)	78	111	78	21	67	33	33
small (0.45-0.7 kg)	45	89	45	21	34	33	33
Lake Trout							
dressed - medium (1.8-3.6 kg)	177	177	177	0	133	0	33
- small (0.9-1.8 kg)	155	155	155	0	111	0	33
headless dressed-large (over 3.6 kg)	166	166	166	0	122	0	33
Walleye							
round - large (over 1.6 kg)	144	177	144	0	-	-	81
- medium (0.6-1.6 kg)	177	266	177	0	-	-	81
- small (0.35-0.6 kg)	144	177	144	0	-	-	81
dressed - large (over 1.4 kg)	160	160	160	0	160	0	69
- medium (0.55-1.4 kg)	184	184	184	0	184	0	69
- small (0.3-0.55kg)	160	160	160	0	160	0	69
Northern Pike							
dressed - large (1.8-4.1 kg)	76	76	76	0	62.5	0	54
- small (0.9-1.8 kg)	-	-	-	-	38.5	0	54
headless - large (over 0.9 kg)	43	43	43	0	38.5	0	54
- small (0.35-0.9 kg)	43	43	43	0	38.5	0	54
Inconnu							
headless dressed	199	199	199	0	166	0	56

[1]Freshwater Fish Marketing Corporation prices.
[2]Government of Northwest Territories subsidy (whitefish only).
[3]30% of above listed price was deducted for fish delivered frozen.
[4]A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations.
[5]Final payments on fish produced during the 1984-85 fiscal year (FFMC).

Table 10. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, from Great Slave Lake, for winter 1985-86 and summer 1986.

Species and Form	Winter 1984-85[3]				Summer 1985[4]		
	FFMC[1]			GNWT[2]	FFMC[1]	GNWT[2]	Final Payment[5]
	Nov.3/85	Jan.12/86	Apr.13/86				
Whitefish (dressed)							
smokers - large	89	177	89	21	86.9	33	15.4
- medium	78	166	78	21	78.1	33	15.4
jumbo (over 1.8 kg)	99	188	99	21	71.5	33	15.4
large (1.4-1.8 kg)	89	177	89	21	69.3	33	15.4
medium (0.7-1.4 kg)	78	166	78	21	67.1	33	15.4
small (0.45-0.7 kg)	45	111	45	21	34.1	33	15.4
Lake Trout							
dressed - medium (1.8-3.6 kg)	144	199	144	0	111.1	0	0
- small (0.9-1.8 kg)	122	177	122	0	89.1	0	0
headless dressed-large (over 3.6 kg)	133	177	133	0	100.1	0	0
Walleye							
round - large (over 1.6 kg)	144	310	144	0	-	-	67.8
- medium (0.6-1.6 kg)	177	310	177	0	-	-	67.8
- small (0.35-0.6 kg)	144	199	144	0	-	-	67.8
dressed - large (over 1.4 kg)	160	160	160	0	159.5	0	79.6
- medium (0.55-1.4 kg)	184	184	184	0	183.7	0	79.6
- small (0.3-0.55kg)	160	160	160	0	159.5	0	79.6
Northern Pike							
dressed - large (1.8-4.1 kg)	94	94	94	0	67.1	0	41.6
- small (0.9-1.8 kg)	67	67	67	0	-	-	41.6
headless - large (over 0.9 kg)	-	-	-	-	45.1	-	41.6
- small (0.35-0.9 kg)	67	67	67	0	45.1	0	41.6
Inconnu							
headless dressed	222	222	222	0	166.1	0	28.2

[1]Freshwater Fish Marketing Corporation prices.
[2]Government of Northwest Territories subsidy (whitefish only).
[3]30% of above listed price was deducted for fish delivered frozen.
[4]A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations.
[5]Final payments on fish produced during the 1985-86 fiscal year (FFMC).

Table 11. Prices (¢/kg) for the commercial fish species, basis loose fresh fish, F.O.B. Freshwater Fish Marketing Corporation, Hay River plant, from Great Slave Lake, for winter 1986-87 and summer 1987.

Species and Form	Winter 1986-87[3] FFMC[1] Nov.2/84	Dec.28/86	Apr.12/85	GNWT[2]	Summer 1987[4] FFMC[1]	GNWT[2]	Final Payment[5]
Whitefish (dressed)							
smokers - large	-	-	-	-	89.5	18.5	6.6
- medium	-	-	-	-	80.5	18.5	6.6
jumbo (over 1.8 kg)	100	188	100	9.5	74.5	18.5	6.6
large (1.4-1.8 kg)	89	177	89	9.5	71.5	18.5	6.6
medium (0.7-1.4 kg)	78	166	78	9.5	69.5	18.5	6.6
small (0.45-0.7 kg)	45	111	45	9.5	36.5	18.5	6.6
Lake Trout							
dressed - medium (1.8-3.6 kg)	221	221	221	0	113	0	0
- small (0.9-1.8 kg)	199	199	199	0	91	0	0
headless dressed (over 3.6 kg)	199	199	199	0	102	0	0
Walleye							
round - large (over 1.6 kg)	177	332	177	0	157.5	0	196.8
- medium (0.6-1.6 kg)	199	332	199	0	190.5	0	196.8
- small (0.35-0.6 kg)	177	199	177	0	157.5	0	196.8
dressed - large (over 1.4 kg)	211	211	211	0	186.5	0	235.4
- medium (0.55-1.4 kg)	262	262	262	0	224.5	0	235.4
- small (0.3-0. 55kg)	177	177	177	0	-	-	-
bellysplit - small (0.3-0.55 kg)	-	-	-	-	186.5	0	235.4
- baby (25 cm)	-	-	-	-	162.5	0	235.4
Northern Pike							
dressed - large (1.8-4.1 kg)	111	111	111	0	113	0	82.5
headless - large (over 0.9kg)	79	79	79	0	80	0	82.5
- small (0.35-0.9 kg)	79	79	79	0	80	0	82.5
Inconnu							
headless dressed	222	222	222	0	168	0	64.7

[1]Freshwater Fish Marketing Corporation prices.
[2]Government of Northwest Territories subsidy (whitefish only).
[3]30% of above listed price was deducted for fish delivered frozen.
[4]A freight charge of 3.3 ¢/kg was deducted for fish delivered to the FFMC lake stations. FFMC reduction bonus, 26.4 ¢/kg paid on all summer whitefish production.
[5]Final payments on fish produced during the 1986/87 fiscal year (FFMC).

Table 12. Summary information from winter fishery observations on Great Slave Lake for 1985-86 and 1986-87.

Area	1985-86		1986-87	
	No of Observations	No. of Nets Observed	No. of Observations	No. of Nets Observed
IW	10	29	6	13
IE	7	16	6	11
TOTAL	17	45	12	24
Mean no. nets fished/ bombardier	34.4		40.0	
Mean no. days between lifts	3.0		2.7	
Mean no. nets lifted/ day	14.1		15.0	
Depth of nets (meshes-range)	8 - 60		12 - 20	
Mean no. persons/ bombardier	3.5		3.5	
% 133.35 mm nets used	100		98.0	

Table 13. Species composition and catch per unit effort (CPUE) for Area IW and IE from winter fishery observations, 1985-86 and 1986-87.

	Area IW 1985-86 Fish Caught				Area IW 1986-87 Fish Caught				Area IE 1985-86 Fish Caught				Area IE 1986-87 Fish Caught				Total Fish Caught			
			CPUE				CPUE				CPUE				CPUE				CPUE	
	No.	% of Total	No.[2]	Wt.[3]	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.	No.	% of Total	No.	Wt.
Lake Whitefish	1153	73.0	13.6	12.9	472	69.5	14.3	12.2	346	76.5	8.0	7.1	311	84.7	11.5	10.1	2282	74.1	13.2	11.7
Lake Trout	24	1.5	0.3														24	0.7	0.1	
Walleye																				
Northern Pike	118	7.5	1.4		54	7.9	1.6						1	0.1	0.1		173	5.6	1.0	
Inconnu	43	2.7	0.5						5	1.1	0.1		3	0.1	0.1		51	1.7	0.3	
Cisco	31	2.0	0.4		3	0.4	0.1		14	3.1	0.3		12	0.3	0.4		60	1.9	0.3	
Longnose Sucker	56	3.5	0.7						35	7.7	0.8		4	0.1	0.1		95	3.1	0.6	
Burbot	155	9.8	2.4		153	22.4	4.6		52	11.5	1.2		36	9.8	1.3		396	12.9	2.3	
Total	1580		19.3		682		20.6		452		10.4		367		13.5		3081		17.9	
Meters of net[1]	7769				3930				3016				2458				17183			

[1] Number of nets observed x 91 m x number of days net were set.
[2] Number of fish/91 m of net/24 hour period.
[3] Round weight of fish (kg)/91 m net/24 hour period.

Table 14. Weight composition by market weight intervals for lake whitefish from commercial plant samples on Great Slave Lake, 1985.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	1	–	–	–	–	–	–	–	4	–	1	–	6	–
SMALL (0.45-0.69 kg)	30	7	10	5	1	–	15	4	43	10	21	5	120	6
MEDIUM (0.70-1.39 kg)	377	90	199	95	106	50	309	83	371	89	392	94	1754	85
LARGE (1.40-1.80 kg)	11	3	1	–	81	39	35	9	1	–	5	1	134	7
JUMBO (> 1.80 kg)	1	–	–	–	22	10	15	4	–	–	–	–	38	2
TOTAL	420		210		210		374		419		419		2052	

Table 15. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1985.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
7	23	2.2	378	28.6	702	174.2
8	110	10.3	396	20.6	820	145.6
9	216	20.3	404	26.2	881	205.1
10	291	27.3	416	27.2	970	215.3
11	134	12.6	422	26.8	1021	274.6
12	121	11.4	429	24.0	1042	230.1
13	74	6.9	440	35.3	1136	361.8
14	60	5.6	446	35.9	1163	357.7
15	29	2.7	456	44.2	1314	503.0
16	8	0.8	476	34.6	1575	314.0
TOTAL	1066					
MEAN			418	32.5	982	281.0
MEAN AGE 10.5						

Table 16. Age composition of commercial whitefish for each seasonal period from area IW, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	23	393	787	-	-	-	-	-	-	23	393	17.1	787	99.1
9	14	406	879	-	-	-	-	-	-	14	406	19.4	879	141.0
10	27	409	878	-	-	-	-	-	-	27	409	17.3	878	119.6
11	10	413	910	-	-	-	-	-	-	10	413	19.0	910	143.0
12	17	428	1044	-	-	-	-	-	-	17	428	12.8	1044	114.4
13	6	432	992	-	-	-	-	-	-	6	432	10.2	992	73.6
14	5	431	1010	-	-	-	-	-	-	5	431	18.2	1010	65.2
15	4	442	1075	-	-	-	-	-	-	4	442	12.5	1075	119.0
TOTAL	106			-			-			106				
MEAN		412	908		-	-		-	-		412	21.5	908	145.4
MEAN AGE	10.4			-			-			10.4				

Table 17. Age composition of commercial whitefish for each seasonal period from area IE, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	404	850	5	364	630	-	-	-	6	371	21.6	667	163.3
8	29	394	786	13	390	808	-	-	-	42	393	15.8	793	132.8
9	21	400	886	17	415	976	-	-	-	38	406	18.5	926	149.7
10	25	417	936	32	417	1000	-	-	-	57	417	18.0	972	150.9
11	13	418	935	13	422	1023	-	-	-	26	420	17.1	979	166.2
12	14	422	993	9	420	1011	-	-	-	23	421	16.0	1000	116.8
13	5	428	990	8	428	1019	-	-	-	13	428	11.9	1008	115.2
14	4	438	1038	5	454	1310	-	-	-	9	447	20.6	1189	273.6
15	1	427	1100	1	436	1400	-	-	-	2	432	6.4	1250	212.1
16	1	462	1300	1	488	1600	-	-	-	2	475	18.4	1450	212.1
TOTAL	114			104			-			218				
MEAN		410	905		415	984		-	-		413	23.2	943	188.0
MEAN AGE	10.0			10.3			-			10.1				

Table 18. Age composition of commercial whitefish for each seasonal period from area II, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
8	-	-	-	5	434	1110	-	-	-	5	434	23.8	1110	114.0
9	-	-	-	15	446	1240	-	-	-	15	446	34.1	1240	321.4
10	-	-	-	22	446	1184	-	-	-	22	446	29.3	1184	263.4
11	-	-	-	16	464	1478	-	-	-	16	464	29.2	1478	407.0
12	-	-	-	14	461	1304	-	-	-	14	461	27.1	1304	198.5
13	-	-	-	16	489	1616	-	-	-	16	489	34.2	1616	413.4
14	-	-	-	10	502	1755	-	-	-	10	502	32.4	1755	311.3
15	-	-	-	5	511	1820	-	-	-	5	511	38.7	1820	495.7
16	-	-	-	1	520	2000	-	-	-	1	520	-	2000	-
TOTAL	-			104			-			104				
MEAN		-	-		466	1410		-	-		466	37.8	1410	390.0
MEAN AGE	-			11.3			-			11.3				

Table 19. Age composition of commercial whitefish for each seasonal period from area III, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	1	374	550	4	389	825	5	386	14.7	770	168.1
8	-	-	-	6	401	867	13	398	842	19	399	23.2	850	155.5
9	-	-	-	21	407	931	15	432	1073	36	417	25.0	990	189.7
10	-	-	-	32	422	1084	47	438	1157	79	431	23.9	1128	189.3
11	-	-	-	7	418	964	14	440	1161	21	433	20.5	1095	232.9
12	-	-	-	5	430	1160	5	447	1370	10	439	35.4	1265	479.6
13	-	-	-	2	490	1800	2	459	1275	4	474	28.9	1538	379.4
14	-	-	-	5	432	1080	2	463	1325	7	441	31.7	1150	294.4
15	-	-	-	3	470	1383	4	497	1888	7	485	34.2	1671	554.4
16	-	-	-	1	440	1400	2	487	1725	3	471	49.2	1617	375.3
TOTAL	-			83			108			191				
MEAN		-	-		421	1049		435	1149		429	31.3	1105	300.8
MEAN AGE	-			10.3			10.2			10.2				

Table 20. Age composition of commercial whitefish for each seasonal period from area IV, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	4	342	488	-	-	-	4	342	19.6	488	75.0
8	-	-	-	2	382	850	6	379	700	8	380	12.7	738	106.1
9	-	-	-	36	384	742	48	388	763	84	386	16.5	754	106.1
10	-	-	-	34	387	779	30	395	805	64	391	17.6	791	94.9
11	-	-	-	12	408	896	12	398	838	24	403	21.1	867	123.1
12	-	-	-	12	419	958	4	423	938	16	420	17.2	953	108.7
13	-	-	-	7	426	1036	7	414	993	14	420	13.6	1014	88.6
14	-	-	-	9	435	1033	2	460	1225	11	440	18.6	1068	167.7
TOTAL	-			116			109			225				
MEAN		-	-		396	825		395	809		395	23.9	817	148.9
MEAN AGE	-			10.4			9.9			10.1				

Table 21. Age composition of commercial whitefish for each seasonal period from area V, 1985.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	5	384	730	-	-	-	3	415	900	8	395	27.7	794	132.1
8	11	402	864	-	-	-	2	413	875	13	403	21.3	865	139.0
9	16	406	834	-	-	-	13	412	908	29	409	18.6	867	135.1
10	32	414	903	-	-	-	10	406	840	42	412	24.5	888	188.3
11	21	414	945	-	-	-	16	417	938	37	416	18.4	942	149.8
12	10	423	965	-	-	-	31	423	953	41	423	20.1	956	170.4
13	10	426	950	-	-	-	11	411	850	21	418	15.7	898	101.8
14	3	442	1050	-	-	-	15	422	903	18	425	25.7	928	177.6
15	3	441	1050	-	-	-	8	415	919	11	422	22.9	955	183.6
16	2	462	1425	-	-	-	-	-	-	2	462	28.3	1425	318.2
TOTAL	113			-			109			222				
MEAN		414	916		-	-		417	912		416	22.5	914	169.6
MEAN AGE	10.5			-			11.7			11.1				

Table 22. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1985.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
310-319	1	-	319	-	400	-
330-339	5	0.2	334	2.9	460	22.4
340-349	6	0.3	344	2.8	492	20.4
350-359	23	1.1	354	2.9	591	68.5
360-369	51	2.5	364	2.7	631	66.3
370-379	93	4.5	374	2.8	688	65.8
380-389	175	8.5	384	2.8	755	71.6
390-399	242	11.8	394	2.9	806	75.7
400-409	288	14.0	404	2.9	877	92.5
410-419	250	12.2	414	2.7	933	86.0
420-429	271	13.2	424	2.7	999	90.3
430-439	220	10.7	434	2.8	1056	106.2
440-449	147	7.2	444	2.8	1151	143.9
450-459	88	4.3	455	2.7	1281	210.0
460-469	56	2.7	463	2.4	1332	129.1
470-479	39	1.9	474	3.0	1442	157.9
480-489	32	1.6	484	2.9	1542	148.2
490-499	27	1.3	494	2.8	1689	224.6
500-509	13	0.6	504	2.4	1777	197.5
510-519	7	0.3	513	2.9	1929	107.5
520-529	4	0.2	524	3.9	2088	143.6
530-539	4	0.2	535	3.9	2250	70.7
540-549	5	0.2	542	1.0	2240	251.0
550-559	1	-	554	-	2400	-
560-569	2	-	564	2.8	3100	989.9
570-579	1	-	573	-	2600	-
590-599	1	-	594	-	2650	-
TOTAL	2052					
MEAN			418	32.5	984	286.2

Table 23. Length composition of commercial whitefish for each seasonal period from area IW, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	342	500	-	-	-	-	-	-	1	342	-	500	-
360-369	3	365	617	-	-	-	-	-	-	3	365	4.2	617	28.9
370-379	10	375	705	-	-	-	-	-	-	10	375	2.7	705	49.7
380-389	17	383	753	-	-	-	-	-	-	17	383	2.5	753	62.4
390-399	28	394	809	-	-	-	-	-	-	28	394	2.8	809	56.2
400-409	34	403	835	-	-	-	-	-	-	34	403	2.9	835	70.2
410-419	31	414	929	-	-	-	-	-	-	31	414	2.9	929	83.4
420-429	37	423	985	-	-	-	-	-	-	37	423	2.4	985	63.3
430-439	23	433	1033	-	-	-	-	-	-	23	433	2.5	1033	83.4
440-449	14	444	1111	-	-	-	-	-	-	14	444	3.1	1111	113.0
450-459	10	452	1140	-	-	-	-	-	-	10	452	1.6	1140	99.4
460-469	1	462	1300	-	-	-	-	-	-	1	462	-	1300	-
490-499	1	492	1750	-	-	-	-	-	-	1	492	-	1750	-
TOTAL	210			-			-			210				
MEAN		412	915		-	-		-	-		412	22.6	915	160.0

Table 24. Length composition of commercial whitefish for each seasonal period from area IE, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	-	-	-	1	335	450	-	-	-	1	335	-	450	-
350-359	1	350	500	8	356	594	-	-	-	9	356	3.1	583	50.0
360-369	5	366	620	3	366	650	-	-	-	8	366	2.5	631	92.3
370-379	10	375	675	4	375	738	-	-	-	14	375	3.2	693	78.1
380-389	22	384	736	15	384	767	-	-	-	37	384	2.8	749	91.7
390-399	25	396	800	23	394	848	-	-	-	48	395	3.3	823	94.5
400-409	40	404	880	38	405	891	-	-	-	78	405	2.7	885	85.7
410-419	41	414	935	20	414	950	-	-	-	61	414	2.5	940	74.1
420-429	27	424	987	34	424	1016	-	-	-	61	424	3.1	1003	86.1
430-439	24	433	1013	22	433	1116	-	-	-	46	433	2.4	1062	123.0
440-449	11	444	1141	22	444	1175	-	-	-	33	444	3.0	1164	122.6
450-459	2	453	1175	9	452	1244	-	-	-	11	452	2.2	1232	138.3
460-469	2	465	1300	5	464	1520	-	-	-	7	464	3.0	1457	153.9
470-479	-	-	-	3	474	1433	-	-	-	3	474	3.5	1433	104.1
480-489	-	-	-	2	485	1450	-	-	-	2	485	4.2	1450	212.1
540-549	-	-	-	1	542	2650	-	-	-	1	542	-	2650	-
TOTAL	210			210			-			420				
MEAN		409	898		416	988		-	-		413	24.9	943	210.6

Table 25. Length composition of commercial whitefish for each seasonal period from area II, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
370-379	-	-	-	1	378	600	-	-	-	1	378	-	600	-
380-389	-	-	-	1	381	750	-	-	-	1	381	-	750	-
390-399	-	-	-	2	394	900	-	-	-	2	394	3.5	900	0.0
400-409	-	-	-	15	405	1013	-	-	-	15	405	2.9	1013	168.5
410-419	-	-	-	11	416	986	-	-	-	11	416	2.5	986	55.2
420-429	-	-	-	12	424	1038	-	-	-	12	424	2.6	1038	74.2
430-439	-	-	-	14	435	1075	-	-	-	14	435	3.2	1075	47.0
440-449	-	-	-	19	444	1166	-	-	-	19	444	2.4	1166	170.0
450-459	-	-	-	28	456	1409	-	-	-	28	456	2.6	1409	290.3
460-469	-	-	-	20	463	1293	-	-	-	20	463	2.5	1293	101.7
470-479	-	-	-	19	475	1466	-	-	-	19	475	3.0	1466	131.3
480-489	-	-	-	23	484	1552	-	-	-	23	484	2.9	1552	159.9
490-499	-	-	-	19	495	1616	-	-	-	19	495	3.0	1616	157.3
500-509	-	-	-	7	504	1686	-	-	-	7	504	2.1	1686	188.7
510-519	-	-	-	6	513	1900	-	-	-	6	513	2.9	1900	83.7
520-529	-	-	-	2	524	2000	-	-	-	2	524	4.9	2000	0.0
530-539	-	-	-	3	536	2250	-	-	-	3	536	2.9	2250	86.6
540-549	-	-	-	4	542	2138	-	-	-	4	542	1.2	2138	118.1
550-559	-	-	-	1	554	2400	-	-	-	1	554	-	2400	-
560-569	-	-	-	1	566	2400	-	-	-	1	566	-	2400	-
570-579	-	-	-	1	573	2600	-	-	-	1	573	-	2600	-
590-599	-	-	-	1	594	2650	-	-	-	1	594	-	2650	-
TOTAL	-			210			-			210				
MEAN		-	-		462	1385		-	-		462	37.4	1385	370.8

Table 26. Length composition of commercial whitefish for each seasonal period from area III, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	-	-	-	1	348	500	-	-	-	1	348	-	500	-
350-359	-	-	-	1	350	550	-	-	-	1	350	-	550	-
360-369	-	-	-	4	363	600	3	364	617	7	363	2.5	607	67.3
370-379	-	-	-	5	375	660	5	375	700	10	375	2.7	680	78.9
380-389	-	-	-	13	384	765	6	383	783	19	384	2.6	771	76.9
390-399	-	-	-	16	395	853	9	395	839	25	395	2.8	848	87.2
400-409	-	-	-	14	405	929	16	405	894	30	405	2.4	910	66.2
410-419	-	-	-	25	414	984	22	415	986	47	414	2.7	985	89.6
420-429	-	-	-	27	424	1070	30	425	1042	57	425	2.7	1055	100.3
430-439	-	-	-	29	434	1122	29	434	1078	58	434	2.7	1099	109.0
440-449	-	-	-	13	444	1246	34	444	1206	47	444	2.8	1217	150.8
450-459	-	-	-	6	456	1217	16	455	1306	22	456	2.1	1282	134.1
460-469	-	-	-	5	463	1420	12	463	1342	17	463	2.6	1365	123.4
470-479	-	-	-	2	471	1575	9	473	1478	11	473	3.1	1495	195.5
480-489	-	-	-	-	-	-	4	484	1563	4	484	3.6	1563	62.9
490-499	-	-	-	1	493	2200	6	495	1825	7	495	2.5	1879	291.3
500-509	-	-	-	1	507	1750	5	505	1910	6	505	2.7	1883	160.2
510-519	-	-	-	-	-	-	1	510	2100	1	510	-	2100	-
520-529	-	-	-	-	-	-	2	525	2175	2	525	4.2	2175	176.8
530-539	-	-	-	1	530	2250	-	-	-	1	530	-	2250	-
560-569	-	-	-	1	562	3800	-	-	-	1	562	-	3800	-
TOTAL	-			165			209			374				
MEAN		-	-		420	1049		435	1151		428	31.5	1106	325.0

Table 27. Length composition of commercial whitefish for each seasonal period from area IV, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	DRESSED WEIGHT(g) MEAN	DRESSED WEIGHT(g) SD.
310-319	-	-	-	1	319	400	-	-	-	1	319	-	400	-
330-339	-	-	-	3	332	450	-	-	-	3	332	1.7	450	0.0
340-349	-	-	-	2	344	500	1	345	500	3	344	2.6	500	0.0
350-359	-	-	-	5	354	660	7	354	571	12	354	2.3	608	79.3
360-369	-	-	-	13	364	623	10	365	665	23	364	2.4	641	65.1
370-379	-	-	-	18	374	686	24	374	696	42	374	2.7	692	60.4
380-389	-	-	-	30	384	777	44	385	749	74	384	2.9	760	62.5
390-399	-	-	-	46	394	807	50	394	797	96	394	2.8	802	65.5
400-409	-	-	-	22	403	884	34	404	860	56	404	2.5	870	73.0
410-419	-	-	-	18	415	908	19	414	913	37	415	2.8	911	70.8
420-429	-	-	-	22	423	1002	10	424	955	32	423	2.4	988	75.1
430-439	-	-	-	17	434	1026	5	434	1060	22	434	2.9	1034	62.5
440-449	-	-	-	9	444	1072	2	442	1025	11	443	2.8	1064	50.5
450-459	-	-	-	1	454	1100	1	458	1150	2	456	2.8	1125	35.4
460-469	-	-	-	2	463	1250	1	463	1200	3	463	3.0	1233	57.7
470-479	-	-	-	-	-	-	1	472	1200	1	472	-	1200	-
480-489	-	-	-	-	-	-	1	482	1450	1	482	-	1450	-
TOTAL	-			209			210			419				
MEAN		-	-		399	839		394	805		396	23.7	822	148.1

Table 28. Length composition of commercial whitefish for each seasonal period from area V, 1985.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	1	338	500	-	-	-	-	-	-	1	338	-	500	-
340-349	-	-	-	-	-	-	1	342	450	1	342	-	450	-
350-359	1	352	500	-	-	-	-	-	-	1	352	-	500	-
360-369	5	362	660	-	-	-	5	364	600	10	363	3.0	630	58.7
370-379	10	374	675	-	-	-	6	375	667	16	374	3.4	672	70.6
380-389	14	385	739	-	-	-	13	385	735	27	385	2.7	737	67.4
390-399	21	393	760	-	-	-	22	395	770	43	394	2.8	765	57.3
400-409	43	405	863	-	-	-	32	405	841	75	405	3.3	853	81.1
410-419	30	414	903	-	-	-	33	414	883	63	414	2.8	893	84.2
420-429	30	424	963	-	-	-	42	423	954	72	424	2.6	958	82.1
430-439	28	434	1005	-	-	-	29	433	1038	57	433	2.9	1022	107.3
440-449	11	444	1036	-	-	-	12	443	1067	23	443	2.5	1052	103.9
450-459	8	454	1181	-	-	-	7	453	1200	15	454	2.7	1190	57.3
460-469	4	463	1250	-	-	-	4	462	1338	8	463	1.5	1294	134.8
470-479	2	475	1275	-	-	-	3	473	1300	5	474	2.9	1290	65.2
480-489	1	482	1650	-	-	-	1	488	1400	2	485	4.2	1525	176.8
TOTAL	209			-			210			419				
MEAN		413	903		-	-		416	914		415	23.6	908	171.2

Table 29. Weight composition by market weight intervals for lake whitefish from commercial plant samples on Great Slave Lake, 1986.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
0 MARKET (< 0.45 kg)	2	–	–	–	3	–	2	–	8	1	–	–	15	–
SMALL (0.45-0.69 kg)	26	4	16	4	31	7	19	5	54	9	26	6	172	6
MEDIUM (0.70-1.39 kg)	569	93	350	84	375	90	360	86	548	87	376	89	2578	88
LARGE (1.40-1.80 kg)	16	3	45	11	6	1	31	7	15	2	17	4	130	4
JUMBO (> 1.80 kg)	1	–	5	1	–	–	6	1	5	–	2	–	19	–
TOTAL	614		416		415		418		630		421		2914	

Table 30. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1986.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
6	8	0.5	367	10.1	663	74.4
7	79	5.2	388	25.5	788	164.1
8	342	22.4	400	24.8	870	161.2
9	360	23.5	407	23.6	906	154.1
10	260	17.0	407	25.6	909	188.0
11	226	14.8	420	29.5	1010	226.0
12	131	8.6	428	28.1	1078	226.0
13	59	3.9	435	26.8	1111	258.5
14	30	2.0	447	25.9	1208	262.3
15	22	1.4	456	24.0	1286	219.4
16	9	0.6	459	31.4	1339	451.9
17	3	0.2	523	25.1	2067	539.3
TOTAL	1529					
MEAN			411	29.7	945	223.1
MEAN AGE 9.8						

Table 31. Age composition of commercial whitefish for each seasonal period from area IW, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	364	600	2	374	725	-	-	-	3	370	14.6	683	104.1
7	11	393	823	9	392	800	-	-	-	20	392	32.4	813	209.6
8	32	402	877	27	413	976	-	-	-	59	407	26.9	922	185.5
9	34	413	949	29	421	1005	-	-	-	63	417	23.1	975	160.6
10	8	410	906	12	445	1200	-	-	-	20	431	31.7	1083	281.6
11	8	454	1281	13	460	1281	-	-	-	21	457	29.0	1281	207.7
12	3	453	1250	10	465	1410	-	-	-	13	462	23.2	1373	239.5
13	2	442	1275	4	471	1475	-	-	-	6	461	34.7	1408	318.5
14	1	490	1550	1	484	1750	-	-	-	2	487	4.2	1650	141.4
15	-	-	-	3	453	1317	-	-	-	3	453	37.5	1317	401.0
16	-	-	-	1	510	2300	-	-	-	1	510	-	2300	-
TOTAL	100			111			-			211				
MEAN		412	953		431	1110		-	-		422	35.4	1036	284.0
MEAN AGE	8.9			9.6			-			9.2				

Table 32. Age composition of commercial whitefish for each seasonal period from area IE, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	10	390	830	16	393	828	26	392	20.9	829	142.9
8	19	374	695	31	389	837	58	414	938	108	400	25.6	866	154.0
9	49	396	860	32	404	936	18	423	983	99	403	17.7	907	113.4
10	15	412	920	11	418	1018	9	438	1094	35	421	20.3	996	143.2
11	13	424	1008	7	430	1107	9	445	1228	29	432	23.7	1100	223.2
12	10	437	1180	7	436	1157	2	461	1250	19	439	19.6	1179	167.8
13	1	462	1300	4	440	1150	3	466	1383	8	452	30.0	1256	334.3
14	1	440	1150	2	476	1550	-	-	-	3	464	24.0	1417	305.5
15	1	478	1450	2	437	1275	-	-	-	3	451	42.3	1333	293.0
TOTAL	109			106			115			330				
MEAN		403	899		407	958		419	982		410	27.3	947	198.3
MEAN AGE	9.6			9.3			8.6			9.2				

Table 33. Age composition of commercial whitefish for each seasonal period from area II, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	364	600	1	355	600	-	-	-	2	360	6.4	600	0.0
7	5	394	850	5	369	660	-	-	-	10	381	18.2	755	142.3
8	41	418	972	40	385	766	-	-	-	81	402	25.2	870	167.2
9	48	422	996	26	402	842	-	-	-	74	415	23.0	942	165.3
10	10	432	1095	25	410	906	-	-	-	35	416	15.3	960	123.0
11	7	442	1157	3	415	950	-	-	-	10	434	25.8	1095	236.2
12	5	459	1270	1	431	1200	-	-	-	6	455	21.5	1258	177.2
13	1	454	1200	-	-	-	-	-	-	1	454	-	1200	-
15	1	462	1250	-	-	-	-	-	-	1	462	-	1250	-
TOTAL	119			101			-			220				
MEAN		423	1011		396	823		-	-		410	26.4	925	185.4

Table 34. Age composition of commercial whitefish for each seasonal period from area III, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	2	373	700	-	-	-	2	373	1.4	700	70.7
7	-	-	-	8	372	713	6	392	800	14	381	28.9	750	165.3
8	-	-	-	23	387	841	30	406	888	53	398	21.8	868	136.3
9	-	-	-	24	396	863	35	416	939	59	408	23.1	908	136.4
10	-	-	-	16	418	1059	12	438	1063	28	427	27.8	1061	212.3
11	-	-	-	16	421	1016	18	454	1272	34	438	24.3	1151	210.5
12	-	-	-	8	421	1038	9	450	1194	17	436	29.7	1121	253.8
13	-	-	-	7	426	1021	3	443	1183	10	431	21.2	1070	242.9
14	-	-	-	3	435	1117	1	458	1250	4	441	25.0	1150	122.5
15	-	-	-	2	456	1300	1	455	1350	3	455	16.5	1317	57.7
17	-	-	-	-	-	-	1	538	2300	1	538	-	2300	-
TOTAL	-			109			116			225				
MEAN		-	-		405	933		425	1027		415	31.5	982	235.0
MEAN AGE	-			9.8			9.6			9.6				

Table 35. Age composition of commercial whitefish for each seasonal period from area IV, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	-	-	-	4	376	700	4	376	25.0	700	135.4
8	-	-	-	4	382	763	6	403	892	10	394	33.0	840	214.5
9	10	370	715	12	383	775	15	390	770	37	382	20.7	757	127.6
10	27	393	841	47	387	781	31	390	766	105	390	15.7	792	107.9
11	34	397	894	24	399	890	36	404	871	94	400	19.3	884	143.5
12	33	402	934	7	421	1036	10	423	965	50	409	17.6	954	104.7
13	10	415	990	5	412	930	6	441	1083	21	422	18.9	1002	140.1
14	1	472	1650	4	435	1063	4	436	1163	9	439	23.2	1172	245.1
15	1	446	1200	1	421	1150	-	-	-	2	434	17.7	1175	35.4
16	2	471	1475	-	-	-	-	-	-	2	471	23.3	1475	247.5
TOTAL	118			104			112			334				
MEAN		399	905		395	843		402	854		399	23.2	869	167.7
MEAN AGE	11.2			10.5			10.5			10.7				

Table 36. Age composition of commercial whitefish for each seasonal period from area V, 1986.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	1	362	650	-	-	-	-	-	-	1	362	-	650	-
7	2	382	700	-	-	-	3	397	733	5	391	18.8	720	75.8
8	20	392	773	-	-	-	11	397	827	31	394	16.0	792	107.3
9	15	394	770	-	-	-	13	420	931	28	406	24.9	845	159.5
10	18	406	875	-	-	-	19	413	924	37	410	22.0	900	164.6
11	19	413	924	-	-	-	19	425	984	38	419	22.8	954	181.0
12	16	420	959	-	-	-	10	437	1135	26	426	26.0	1027	231.2
13	6	422	925	-	-	-	7	442	1221	13	433	25.0	1085	238.4
14	7	442	1129	-	-	-	5	446	1130	12	444	25.6	1129	241.6
15	2	454	1225	-	-	-	8	465	1294	10	463	18.8	1280	228.8
16	3	444	1150	-	-	-	3	449	1117	6	447	26.6	1133	267.7
17	-	-	-	-	-	-	2	516	1950	2	516	30.4	1950	707.1
TOTAL	109			-			100			209				
MEAN		409	890		-	-		427	1028		418	30.2	956	248.3
MEAN AGE	10.6			-			11.1			10.8				

Table 37. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1986.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
300-309	1	-	308	-	400	-
310-319	2	-	318	0.0	400	0.0
320-329	6	0.2	326	2.3	433	25.8
330-339	9	0.3	335	2.5	472	44.1
340-349	26	0.9	344	2.8	558	73.1
350-359	45	1.5	355	2.8	616	72.9
360-369	92	3.2	364	2.6	662	64.0
370-379	169	5.8	374	2.8	719	61.0
380-389	296	10.2	384	2.7	773	68.3
390-399	424	14.6	394	2.9	828	65.7
400-409	459	15.8	404	2.8	888	73.9
410-419	347	11.9	414	2.8	942	75.4
420-429	327	11.2	424	2.8	998	85.8
430-439	232	8.0	434	2.8	1072	101.1
440-449	173	5.9	444	2.6	1147	104.9
450-459	107	3.7	454	2.7	1232	111.9
460-469	63	2.2	463	2.5	1324	131.6
470-479	55	1.9	474	2.5	1417	128.1
480-489	27	0.9	483	3.0	1520	149.5
490-499	23	0.8	492	2.6	1604	144.5
500-509	13	0.4	505	3.5	1804	232.3
510-519	6	0.2	513	3.1	1683	318.9
520-529	5	0.2	524	3.8	2140	298.7
530-539	3	0.1	535	4.4	2133	425.2
550-559	1	-	554	-	2200	-
570-579	1	-	577	-	2650	-
590-599	1	-	591	-	2950	-
610-619	1	-	616	-	3850	-
TOTAL	2914					
MEAN			411	31.3	945	241.0

Table 38. Length composition of commercial whitefish for each seasonal period from area IW, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	2	344	525	-	-	-	-	-	-	2	344	2.1	525	35.4
350-359	3	357	583	1	356	600	-	-	-	4	357	1.3	588	25.0
360-369	5	363	630	6	363	650	-	-	-	11	363	2.6	641	43.7
370-379	10	372	715	1	375	700	-	-	-	11	372	2.5	714	55.2
380-389	22	384	800	15	385	793	-	-	-	37	384	3.1	797	63.4
390-399	34	394	846	19	396	855	-	-	-	53	395	2.9	849	53.3
400-409	38	404	905	14	403	889	-	-	-	52	403	2.7	901	59.0
410-419	25	413	962	21	414	950	-	-	-	46	414	2.9	957	75.0
420-429	29	423	1029	19	424	1050	-	-	-	48	423	3.3	1038	61.5
430-439	14	434	1104	18	434	1089	-	-	-	32	434	2.6	1095	84.6
440-449	14	443	1193	17	443	1174	-	-	-	31	443	3.0	1182	126.2
450-459	3	451	1283	27	454	1254	-	-	-	30	454	2.6	1257	89.8
460-469	2	461	1300	10	464	1335	-	-	-	12	463	2.6	1329	117.7
470-479	4	473	1375	9	475	1417	-	-	-	13	474	2.1	1404	170.1
480-489	-	-	-	9	483	1561	-	-	-	9	483	2.9	1561	136.4
490-499	2	490	1625	8	493	1619	-	-	-	10	492	2.1	1620	97.8
500-509	1	503	1850	5	504	1720	-	-	-	6	504	3.0	1742	165.6
510-519	-	-	-	5	514	1700	-	-	-	5	514	3.0	1700	353.6
520-529	-	-	-	3	524	1967	-	-	-	3	524	4.0	1967	208.2
530-539	-	-	-	1	530	1650	-	-	-	1	530	-	1650	-
TOTAL	208			208			-			416				
MEAN		409	947		435	1139		-	-		422	35.6	1043	276.8

Table 39. Length composition of commercial whitefish for each seasonal period from area IE, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	1	323	400	-	-	-	-	-	-	1	323	-	400	-
330-339	1	330	450	-	-	-	-	-	-	1	330	-	450	-
340-349	3	342	550	3	344	533	-	-	-	6	343	3.1	542	37.6
350-359	4	355	575	1	357	700	-	-	-	5	355	3.1	600	61.2
360-369	9	364	661	5	364	740	2	364	650	16	364	2.6	684	56.9
370-379	13	374	677	12	375	771	5	373	700	30	374	2.9	718	65.0
380-389	31	384	774	30	385	817	14	385	750	75	385	2.9	787	64.9
390-399	35	394	833	37	395	847	23	393	809	95	394	2.8	833	55.9
400-409	40	404	883	33	404	927	35	405	879	108	404	2.8	895	72.6
410-419	20	415	940	28	414	986	20	415	950	68	414	2.7	962	70.2
420-429	24	423	998	24	426	1052	30	424	995	78	424	2.7	1013	82.8
430-439	8	434	1113	13	434	1135	33	434	1052	54	434	2.9	1081	92.9
440-449	9	443	1156	9	444	1211	16	444	1116	34	444	2.6	1151	83.9
450-459	6	455	1275	4	454	1313	6	452	1158	16	454	2.8	1241	122.8
460-469	4	464	1388	7	464	1350	5	463	1380	16	464	2.5	1369	132.8
470-479	1	478	1450	1	472	1550	3	475	1333	5	475	2.7	1400	100.0
480-489	1	482	1450	1	488	1750	-	-	-	2	485	4.2	1600	212.1
490-499	-	-	-	1	490	1650	2	494	1650	3	492	2.5	1650	300.0
500-509	-	-	-	-	-	-	1	500	1400	1	500	-	1400	-
TOTAL	210			209			195			614				
MEAN		403	886		408	956		418	967		409	26.6	936	191.1

Table 40. Length composition of commercial whitefish for each seasonal period from area II, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	-	-	-	2	327	425	-	-	-	2	327	2.1	425	35.4
330-339	-	-	-	1	336	400	-	-	-	1	336	-	400	-
340-349	2	345	500	2	349	525	-	-	-	4	347	3.3	513	25.0
350-359	-	-	-	8	354	613	-	-	-	8	354	3.1	613	51.8
360-369	5	362	580	15	366	680	-	-	-	20	365	3.1	655	91.9
370-379	5	373	700	22	376	711	-	-	-	27	375	2.8	709	43.9
380-389	13	384	758	36	384	754	-	-	-	49	384	2.6	755	57.0
390-399	24	393	808	34	396	813	-	-	-	58	395	3.0	811	59.3
400-409	27	403	876	42	405	876	-	-	-	69	404	2.9	876	62.8
410-419	26	414	948	30	414	907	-	-	-	56	414	2.4	926	73.8
420-429	37	424	977	8	423	944	-	-	-	45	423	2.9	971	76.5
430-439	26	434	1071	6	434	1058	-	-	-	32	434	3.0	1069	87.8
440-449	22	444	1159	1	443	1100	-	-	-	23	444	2.9	1157	96.9
450-459	5	452	1160	1	451	1300	-	-	-	6	452	1.2	1183	75.3
460-469	8	463	1288	-	-	-	-	-	-	8	463	2.1	1288	106.1
470-479	5	474	1350	1	477	1450	-	-	-	6	474	2.8	1367	81.6
480-489	1	487	1600	-	-	-	-	-	-	1	487	-	1600	-
TOTAL	206			209			-			415				
MEAN		417	966		394	812		-	-		406	26.8	888	182.4

Table 41. Length composition of commercial whitefish for each seasonal period from area III, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
320-329	-	-	-	1	328	450	-	-	-	1	328	-	450	-
330-339	-	-	-	2	337	500	-	-	-	2	337	0.0	500	70.7
340-349	-	-	-	6	344	642	-	-	-	6	344	2.4	642	91.7
350-359	-	-	-	9	356	667	-	-	-	9	356	2.6	667	70.7
360-369	-	-	-	8	366	681	2	367	675	10	366	1.9	680	35.0
370-379	-	-	-	24	374	725	6	375	700	30	374	2.8	720	42.8
380-389	-	-	-	12	384	829	12	384	763	24	384	2.4	796	87.1
390-399	-	-	-	23	396	887	20	392	795	43	394	2.8	844	73.4
400-409	-	-	-	31	404	931	23	404	867	54	404	2.7	904	65.0
410-419	-	-	-	21	415	993	19	415	942	40	415	2.7	969	67.6
420-429	-	-	-	24	424	1027	23	423	970	47	423	2.4	999	79.0
430-439	-	-	-	21	435	1140	25	434	1032	46	434	2.9	1082	110.7
440-449	-	-	-	16	444	1200	17	444	1153	33	444	2.2	1176	106.9
450-459	-	-	-	6	456	1375	22	455	1195	28	455	2.8	1234	129.1
460-469	-	-	-	-	-	-	12	464	1325	12	464	2.7	1325	65.7
470-479	-	-	-	2	472	1425	12	474	1450	14	474	2.6	1446	102.8
480-489	-	-	-	1	487	1650	7	482	1471	8	482	2.2	1494	176.1
490-499	-	-	-	-	-	-	4	491	1588	4	491	1.2	1588	25.0
500-509	-	-	-	1	509	2100	4	505	1950	5	505	3.8	1980	198.7
520-529	-	-	-	-	-	-	1	520	2250	1	520	-	2250	-
530-539	-	-	-	-	-	-	1	538	2300	1	538	-	2300	-
TOTAL	-			208			210			418				
MEAN		-	-		405	946		431	1070		418	34.6	1009	268.1

Table 42. Length composition of commercial whitefish for each seasonal period from area IV, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
300-309	1	308	400	-	-	-	-	-	-	1	308	-	400	-
310-319	2	318	400	-	-	-	-	-	-	2	318	0.0	400	0.0
320-329	-	-	-	1	327	450	1	323	450	2	325	2.8	450	0.0
330-339	3	335	483	1	334	500	1	335	450	5	335	2.1	480	27.4
340-349	2	348	575	4	346	538	1	342	500	7	346	2.1	543	60.7
350-359	4	353	625	7	355	636	3	355	567	14	354	2.4	618	89.0
360-369	7	364	679	16	365	663	5	364	640	28	364	2.3	663	53.8
370-379	23	374	767	15	375	723	19	374	682	57	374	2.7	727	72.6
380-389	19	383	814	28	385	789	29	383	734	76	384	2.6	774	67.2
390-399	40	394	866	38	394	813	42	394	811	120	394	2.9	830	65.9
400-409	51	404	942	31	403	892	39	403	846	121	404	2.9	898	80.6
410-419	24	413	967	23	414	948	29	413	917	76	413	2.9	942	67.4
420-429	19	423	1035	13	422	1035	18	423	972	50	423	2.3	1012	84.7
430-439	9	432	1122	8	435	1131	7	433	1021	24	433	2.3	1096	119.7
440-449	2	444	1075	8	446	1144	8	444	1106	18	445	2.8	1119	86.0
450-459	2	456	1400	2	453	1075	3	452	1200	7	453	2.9	1221	157.7
460-469	-	-	-	2	462	1250	3	465	1300	5	464	2.7	1280	192.4
470-479	1	472	1650	2	477	1575	1	470	1400	4	474	3.7	1550	122.5
480-489	1	487	1650	2	484	1550	-	-	-	3	485	3.5	1583	76.4
490-499	-	-	-	3	495	1517	-	-	-	3	495	4.0	1517	189.3
500-509	-	-	-	1	509	1700	-	-	-	1	509	-	1700	-
510-519	-	-	-	-	-	-	1	510	1600	1	510	-	1600	-
520-529	-	-	-	1	527	2550	-	-	-	1	527	-	2550	-
550-559	-	-	-	1	554	2200	-	-	-	1	554	-	2200	-
570-579	-	-	-	1	577	2650	-	-	-	1	577	-	2650	-
590-599	-	-	-	1	591	2950	-	-	-	1	591	-	2950	-
610-619	-	-	-	1	616	3850	-	-	-	1	616	-	3850	-
TOTAL	210			210			210			630				
MEAN		397	896		404	926		401	849		401	30.9	890	259.9

Table 43. Length composition of commercial whitefish for each seasonal period from area V, 1986.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	340	500	-	-	-	-	-	-	1	340	-	500	-
350-359	5	354	560	-	-	-	-	-	-	5	354	4.0	560	54.8
360-369	7	363	636	-	-	-	-	-	-	7	363	2.1	636	74.8
370-379	12	373	704	-	-	-	2	373	725	14	373	3.2	707	70.3
380-389	23	384	728	-	-	-	12	385	708	35	384	2.6	721	51.9
390-399	35	394	791	-	-	-	20	394	823	55	394	2.9	803	80.7
400-409	27	404	835	-	-	-	28	404	848	55	404	2.8	842	76.8
410-419	33	414	905	-	-	-	28	415	911	61	414	2.8	907	83.1
420-429	27	423	939	-	-	-	32	424	961	59	423	2.8	951	95.8
430-439	16	433	1006	-	-	-	28	434	1034	44	434	2.8	1024	99.1
440-449	7	444	1093	-	-	-	27	444	1091	34	444	2.3	1091	94.9
450-459	9	453	1206	-	-	-	11	455	1200	20	454	2.7	1203	99.3
460-469	2	463	1325	-	-	-	8	463	1288	10	463	2.7	1295	189.2
470-479	4	473	1363	-	-	-	9	474	1400	13	474	2.7	1388	119.3
480-489	1	480	1450	-	-	-	3	485	1350	4	484	4.0	1375	86.6
490-499	1	490	1550	-	-	-	2	496	1650	3	494	4.0	1617	208.2
530-539	-	-	-	-	-	-	1	537	2450	1	537	-	2450	-
TOTAL	210			-			211			421				
MEAN		408	877		-	-		426	999		417	28.1	938	216.6

Table 44. Weight composition by market weight intervals for lake whitefish from commercial plant samples on Great Slave Lake, 1987.

MARKET WEIGHT INTERVAL (DRESSED)	AREA IE		AREA IW		AREA II		AREA III		AREA IV		AREA V		TOTAL	
	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
NO MARKET (< 0.45 kg)	8	2	2	_	1	_	8	4	1	_	_	_	20	_
SMALL (0.45-0.69 kg)	41	10	17	4	21	5	31	15	31	7	32	5	173	7
MEDIUM (0.70-1.39 kg)	362	86	341	81	339	81	145	70	379	90	567	90	2133	85
LARGE (1.40-1.80 kg)	8	2	51	12	46	11	13	6	8	2	27	4	153	6
JUMBO (> 1.80 kg)	1	_	8	2	13	3	9	4	1	_	3	_	35	1
TOTAL	420		419		420		206		420		629		2514	

Table 45. Age composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1987.

AGE (yr)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
5	1	-	286	-	250	-
6	8	0.6	378	47.1	700	285.4
7	41	3.0	373	22.0	656	151.3
8	115	8.3	393	24.1	783	161.0
9	335	24.3	407	23.2	884	164.2
10	326	23.6	413	26.5	922	207.3
11	218	15.8	421	25.6	984	192.7
12	154	11.2	427	26.0	1013	188.6
13	71	5.1	446	29.8	1163	264.8
14	51	3.7	455	33.1	1220	279.8
15	34	2.5	486	28.7	1490	280.6
16	16	1.2	493	36.9	1553	422.9
17	7	0.5	521	33.1	1943	402.5
18	2	0.1	525	26.9	1950	424.3
20	1	-	493	-	1500	-
TOTAL	1380					
MEAN			418	34.6	963	266.7
MEAN AGE 10.4						

Table 46. Age composition of commercial whitefish for each seasonal period from area IW, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	2	384	725	1	448	1150	-	-	-	3	405	53.6	867	368.6
7	1	400	700	2	416	900	-	-	-	3	410	9.3	833	115.5
8	10	386	670	10	419	985	-	-	-	20	403	25.5	828	209.9
9	39	399	787	44	439	1105	-	-	-	83	420	28.0	955	210.4
10	42	416	871	37	447	1211	-	-	-	79	431	30.2	1030	266.3
11	10	424	970	23	449	1209	-	-	-	33	442	24.5	1136	179.1
12	4	444	1088	21	460	1252	-	-	-	25	457	22.5	1226	169.6
13	1	407	800	14	478	1436	-	-	-	15	474	28.0	1393	262.5
14	1	450	1250	11	491	1532	-	-	-	12	488	30.7	1508	279.5
15	-	-	-	11	494	1573	-	-	-	11	494	20.9	1573	258.2
16	-	-	-	6	510	1617	-	-	-	6	510	36.0	1617	301.1
17	-	-	-	1	520	1750	-	-	-	1	520	-	1750	-
TOTAL	110			181			-			291				
MEAN		409	839		455	1249		-	-		438	37.5	1094	305.9
MEAN AGE	9.6			11.0			-			10.4				

Table 47. Age composition of commercial whitefish for each seasonal period from area IE, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
5	-	-	-	1	286	250	-	-	-	1	286	-	250	-
6	-	-	-	1	342	500	-	-	-	1	342	-	500	-
7	3	368	667	14	368	639	-	-	-	17	368	22.1	644	172.2
8	10	397	760	15	386	753	-	-	-	25	390	25.7	756	157.0
9	49	406	851	37	410	872	-	-	-	86	407	19.4	860	130.6
10	24	418	921	31	416	942	-	-	-	55	417	21.3	933	165.1
11	7	414	886	8	431	1050	-	-	-	15	423	25.9	973	198.1
12	7	433	1057	3	445	1200	-	-	-	10	437	24.7	1100	257.1
13	1	442	1050	1	491	1900	-	-	-	2	467	34.6	1475	601.0
14	2	444	1075	1	458	1200	-	-	-	3	449	12.9	1117	189.3
15	1	472	1200	1	502	1550	-	-	-	2	487	21.2	1375	247.5
20	-	-	-	1	493	1500	-	-	-	1	493	-	1500	-
TOTAL	104			114			-			218				
MEAN		411	879		407	882		-	-		408	30.2	881	215.2
MEAN AGE	9.6			9.3			-			9.4				

Table 48. Age composition of commercial whitefish for each seasonal period from area II, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	1	374	650	1	343	450	-	-	-	2	359	21.9	550	141.4
8	9	388	744	5	381	740	-	-	-	14	386	17.3	743	103.5
9	32	396	811	21	401	852	-	-	-	53	398	18.0	827	115.4
10	28	417	941	40	402	855	-	-	-	68	409	21.8	890	192.4
11	23	424	948	19	428	1005	-	-	-	42	426	26.3	974	190.7
12	8	427	1000	15	434	1030	-	-	-	23	431	16.3	1020	117.5
13	1	462	1150	7	455	1279	-	-	-	8	456	30.2	1263	286.3
14	1	446	1100	5	468	1270	-	-	-	6	464	25.8	1242	247.8
15	-	-	-	6	510	1742	-	-	-	6	510	32.3	1742	338.3
16	-	-	-	4	511	1863	-	-	-	4	511	36.0	1863	545.2
17	-	-	-	4	532	2088	-	-	-	4	532	28.3	2088	352.1
18	-	-	-	2	525	1950	-	-	-	2	525	26.9	1950	424.3
TOTAL	103			129			-			232				
MEAN		411	890		428	1056		-	-		420	38.9	983	331.8
MEAN AGE	9.9			11.2			-			10.6				

Table 49. Age composition of commercial whitefish for each seasonal period from area III, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	1	313	350	-	-	-	1	313	-	350	-
7	-	-	-	11	364	595	-	-	-	11	364	16.0	595	106.0
8	-	-	-	15	389	763	-	-	-	15	389	29.3	763	191.3
9	-	-	-	27	405	889	-	-	-	27	405	23.3	889	198.2
10	-	-	-	23	415	974	-	-	-	23	415	19.6	974	198.2
11	-	-	-	16	430	1072	-	-	-	16	430	27.0	1072	258.2
12	-	-	-	4	445	1200	-	-	-	4	445	17.8	1200	158.1
13	-	-	-	6	451	1183	-	-	-	6	451	20.0	1183	150.6
14	-	-	-	2	455	1375	-	-	-	2	455	24.0	1375	247.5
15	-	-	-	4	483	1388	-	-	-	4	483	24.8	1388	225.0
16	-	-	-	2	464	1500	-	-	-	2	464	36.1	1500	565.7
17	-	-	-	1	534	2200	-	-	-	1	534	-	2200	-
TOTAL	-			112			-			112				
MEAN		-	-		413	958		-	-		413	38.2	958	310.7
MEAN AGE	-			10.0			-			10.0				

Table 50. Age composition of commercial whitefish for each seasonal period from area IV, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
7	-	-	-	-	-	-	1	385	700	1	385	-	700	-
8	2	363	650	-	-	-	20	400	838	22	397	20.5	820	139.4
9	5	373	650	-	-	-	27	406	922	32	401	18.9	880	147.5
10	25	380	744	-	-	-	30	404	882	55	393	23.2	819	147.4
11	36	404	868	-	-	-	22	418	1016	58	409	22.6	924	173.5
12	24	406	894	-	-	-	4	418	1000	28	407	22.4	909	151.6
13	7	415	1007	-	-	-	3	437	1100	10	421	22.5	1035	118.0
14	2	443	1100	-	-	-	-	-	-	2	443	49.5	1100	212.1
15	2	444	1275	-	-	-	-	-	-	2	444	22.6	1275	247.5
TOTAL	103			-			107			210				
MEAN		398	851		-	-		408	920		403	23.8	886	168.2
MEAN AGE	11.1			-			9.7			10.4				

Table 51. Age composition of commercial whitefish for each seasonal period from area V, 1987.

AGE (yr)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
6	-	-	-	1	371	600	2	391	775	3	384	31.2	717	160.7
7	3	372	667	3	397	833	1	382	600	7	384	15.7	729	118.5
8	6	377	717	7	388	764	6	405	842	19	390	23.3	774	138.8
9	25	396	864	15	400	860	14	404	896	54	399	18.4	871	129.1
10	25	407	880	10	422	915	11	402	791	46	409	18.0	866	121.1
11	15	413	923	20	425	1018	19	407	876	54	415	18.9	942	142.7
12	18	426	1036	15	430	970	31	412	885	64	420	20.4	948	139.8
13	7	436	1029	13	446	1135	10	418	925	30	434	21.6	1040	193.2
14	3	408	900	14	452	1196	9	433	989	26	440	26.6	1090	202.5
15	1	442	1200	7	483	1393	1	428	1100	9	472	26.1	1339	181.6
16	2	474	1250	1	458	1150	1	448	1050	4	464	13.7	1175	104.1
17	1	462	1300	-	-	-	-	-	-	1	462	-	1300	-
TOTAL	106			106			105			317				
MEAN		410	918		428	1017		411	884		416	27.3	940	185.8
MEAN AGE	10.6			11.4			11.2			11.0				

Table 52. Length composition of whitefish for all areas combined from Great Slave Lake commercial fishery, 1987.

LENGTH INTERVAL (mm)	NO.	%	FORK LENGTH(mm) MEAN	FORK LENGTH(mm) SD.	DRESSED WEIGHT (g) MEAN	DRESSED WEIGHT (g) SD.
280-289	1	-	286	-	250	-
310-319	4	0.2	314	2.6	338	25.0
320-329	2	-	329	0.7	475	35.4
330-339	7	0.3	337	2.0	457	53.5
340-349	23	0.9	344	2.8	509	66.8
350-359	30	1.2	354	2.6	548	63.6
360-369	57	2.3	365	2.9	628	52.6
370-379	110	4.4	375	2.8	684	61.7
380-389	182	7.2	384	2.5	741	69.7
390-399	325	12.9	394	2.9	800	65.9
400-409	340	13.5	404	2.9	858	73.3
410-419	344	13.7	414	2.6	913	77.9
420-429	289	11.5	424	2.7	992	94.6
430-439	221	8.8	434	2.8	1046	89.5
440-449	165	6.6	444	2.9	1118	108.2
450-459	112	4.5	454	2.9	1202	127.2
460-469	82	3.3	464	2.9	1269	125.6
470-479	55	2.2	474	2.8	1380	139.3
480-489	53	2.1	484	2.9	1439	183.1
490-499	40	1.6	494	2.6	1550	163.7
500-509	29	1.2	504	3.2	1622	172.0
510-519	15	0.6	513	3.1	1793	199.9
520-529	9	0.4	522	1.7	1806	189.5
530-539	6	0.2	533	2.3	1850	240.8
540-549	6	0.2	544	3.4	2192	203.5
550-559	2	-	552	0.0	1875	176.8
560-569	2	-	565	4.9	2450	282.8
570-579	2	-	571	0.7	2450	141.4
580-589	1	-	581	-	3700	-
TOTAL	2514					
MEAN			419	35.3	968	275.0

Table 53. Length composition of commercial whitefish for each seasonal period from area IW, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	3	344	450	-	-	-	-	-	-	3	344	4.0	450	50.0
350-359	1	357	500	-	-	-	-	-	-	1	357	-	500	-
360-369	4	365	600	-	-	-	-	-	-	4	365	4.1	600	91.3
370-379	9	375	633	-	-	-	-	-	-	9	375	3.0	633	43.3
380-389	17	383	712	1	385	800	-	-	-	18	384	2.5	717	51.4
390-399	35	393	751	3	395	833	-	-	-	38	394	3.1	758	52.7
400-409	43	403	817	10	404	850	-	-	-	53	403	3.2	824	71.1
410-419	27	413	854	14	414	975	-	-	-	41	413	2.5	895	98.5
420-429	28	424	941	15	425	1100	-	-	-	43	424	2.8	997	147.4
430-439	16	433	1019	17	434	1097	-	-	-	33	433	2.8	1059	67.8
440-449	14	441	1048	26	444	1162	-	-	-	40	443	3.0	1121	115.4
450-459	5	453	1150	24	453	1229	-	-	-	29	453	2.8	1216	73.3
460-469	7	462	1193	25	463	1276	-	-	-	32	463	2.7	1258	107.1
470-479	1	470	1200	16	474	1347	-	-	-	17	474	3.0	1338	136.4
480-489	-	-	-	18	486	1428	-	-	-	18	486	2.0	1428	153.6
490-499	-	-	-	15	494	1507	-	-	-	15	494	2.7	1507	161.3
500-509	-	-	-	8	505	1519	-	-	-	8	505	2.8	1519	221.9
510-519	-	-	-	7	513	1771	-	-	-	7	513	3.0	1771	168.0
520-529	-	-	-	5	522	1740	-	-	-	5	522	1.8	1740	198.1
530-539	-	-	-	3	532	1683	-	-	-	3	532	1.5	1683	175.6
540-549	-	-	-	2	543	2075	-	-	-	2	543	3.5	2075	106.1
TOTAL	210			209			-			419				
MEAN		409	853		458	1268		-	-		434	38.1	1059	301.9

Table 54. Length composition of commercial whitefish for each seasonal period from area IE, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
280-289	-	-	-	1	286	250	-	-	-	1	286	-	250	-
310-319	-	-	-	3	314	333	-	-	-	3	314	3.2	333	28.9
320-329	-	-	-	1	328	500	-	-	-	1	328	-	500	-
330-339	1	338	400	-	-	-	-	-	-	1	338	-	400	-
340-349	-	-	-	7	346	507	-	-	-	7	346	2.3	507	45.0
350-359	2	354	500	6	354	500	-	-	-	8	354	3.0	500	37.8
360-369	4	365	600	9	365	617	-	-	-	13	365	2.7	612	41.6
370-379	7	375	671	12	376	683	-	-	-	19	376	2.0	679	48.1
380-389	16	383	731	15	384	713	-	-	-	31	383	2.5	723	64.3
390-399	39	394	767	26	394	792	-	-	-	65	394	2.8	777	57.3
400-409	38	403	836	25	404	858	-	-	-	63	403	3.0	844	59.0
410-419	45	414	894	28	414	921	-	-	-	73	414	2.5	905	69.8
420-429	17	424	965	24	424	960	-	-	-	41	424	2.7	962	81.2
430-439	16	432	1031	21	435	1043	-	-	-	37	434	2.7	1038	82.0
440-449	14	444	1121	14	445	1121	-	-	-	28	444	3.2	1121	160.7
450-459	5	455	1170	7	453	1157	-	-	-	12	454	2.9	1163	52.8
460-469	3	466	1267	2	466	1175	-	-	-	5	466	2.5	1230	75.8
470-479	1	472	1200	1	474	1300	-	-	-	2	473	1.4	1250	70.7
480-489	2	481	1275	4	483	1563	-	-	-	6	482	2.6	1467	180.7
490-499	-	-	-	3	493	1700	-	-	-	3	493	2.0	1700	200.0
500-509	-	-	-	1	502	1550	-	-	-	1	502	-	1550	-
TOTAL	210			210			-			420				
MEAN		410	877		408	885		-	-		409	29.8	881	211.7

Table 55. Length composition of commercial whitefish for each seasonal period from area II, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	348	500	2	344	475	-	-	-	3	345	2.6	483	28.9
360-369	3	367	617	4	365	663	-	-	-	7	366	2.3	643	34.5
370-379	9	374	650	9	375	706	-	-	-	18	375	2.6	678	52.1
380-389	21	385	755	8	383	750	-	-	-	29	384	2.6	753	69.3
390-399	25	394	822	24	395	785	-	-	-	49	395	2.7	804	56.7
400-409	28	405	839	25	404	848	-	-	-	53	404	2.8	843	61.3
410-419	36	414	900	26	414	927	-	-	-	62	414	2.7	911	74.3
420-429	31	424	973	21	425	971	-	-	-	52	424	2.7	972	62.9
430-439	17	433	1035	12	435	1046	-	-	-	29	434	3.1	1040	71.2
440-449	8	444	1113	9	444	1106	-	-	-	17	444	2.6	1109	64.3
450-459	10	454	1165	14	454	1279	-	-	-	24	454	3.2	1231	206.3
460-469	6	464	1242	8	464	1163	-	-	-	14	464	3.0	1196	152.5
470-479	1	476	1400	8	476	1450	-	-	-	9	476	2.3	1444	121.0
480-489	-	-	-	10	483	1335	-	-	-	10	483	3.2	1335	182.7
490-499	-	-	-	14	494	1539	-	-	-	14	494	2.8	1539	90.3
500-509	-	-	-	13	505	1677	-	-	-	13	505	3.3	1677	56.3
510-519	-	-	-	5	512	1860	-	-	-	5	512	3.6	1860	151.7
520-529	-	-	-	3	523	1900	-	-	-	3	523	1.2	1900	200.0
530-539	-	-	-	2	535	1925	-	-	-	2	535	2.8	1925	106.1
540-549	-	-	-	2	542	2125	-	-	-	2	542	2.8	2125	176.8
550-559	-	-	-	2	552	1875	-	-	-	2	552	0.0	1875	176.8
560-569	-	-	-	1	561	2650	-	-	-	1	561	-	2650	-
570-579	-	-	-	2	571	2450	-	-	-	2	571	0.7	2450	141.4
TOTAL	196			224			-			420				
MEAN		412	906		439	1129		-	-		427	40.4	1025	331.3

Table 56. Length composition of commercial whitefish for each seasonal period from area III, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
310-319	-	-	-	1	313	350	-	-	-	1	313	-	350	-
320-329	-	-	-	1	329	450	-	-	-	1	329	-	450	-
330-339	-	-	-	5	337	480	-	-	-	5	337	1.3	480	44.7
340-349	-	-	-	5	342	510	-	-	-	5	342	1.6	510	114.0
350-359	-	-	-	10	355	555	-	-	-	10	355	2.2	555	55.0
360-369	-	-	-	8	364	600	-	-	-	8	364	2.9	600	59.8
370-379	-	-	-	13	375	673	-	-	-	13	375	3.5	673	43.9
380-389	-	-	-	19	385	697	-	-	-	19	385	2.6	697	75.4
390-399	-	-	-	22	394	791	-	-	-	22	394	3.1	791	79.6
400-409	-	-	-	21	404	907	-	-	-	21	404	2.4	907	79.5
410-419	-	-	-	18	415	892	-	-	-	18	415	2.7	892	77.2
420-429	-	-	-	21	424	1040	-	-	-	21	424	2.9	1040	88.9
430-439	-	-	-	16	435	1100	-	-	-	16	435	3.3	1100	96.6
440-449	-	-	-	11	444	1155	-	-	-	11	444	3.3	1155	125.4
450-459	-	-	-	8	454	1200	-	-	-	8	454	2.9	1200	92.6
460-469	-	-	-	4	465	1388	-	-	-	4	465	3.7	1388	179.7
470-479	-	-	-	6	474	1467	-	-	-	6	474	1.9	1467	153.8
480-489	-	-	-	6	484	1567	-	-	-	6	484	2.4	1567	235.9
490-499	-	-	-	3	492	1833	-	-	-	3	492	2.1	1833	115.5
500-509	-	-	-	3	500	1683	-	-	-	3	500	0.6	1683	202.1
510-519	-	-	-	1	518	2150	-	-	-	1	518	-	2150	-
530-539	-	-	-	1	534	2200	-	-	-	1	534	-	2200	-
540-549	-	-	-	2	546	2375	-	-	-	2	546	4.2	2375	247.5
580-589	-	-	-	1	581	3700	-	-	-	1	581	-	3700	-
TOTAL	-			206			-			206				
MEAN		-	-		413	968		-	-		413	44.0	968	410.3

Table 57. Length composition of commercial whitefish for each seasonal period from area IV, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
330-339	1	333	400	-	-	-	-	-	-	1	333	-	400	-
340-349	3	341	550	-	-	-	-	-	-	3	341	1.2	550	0.0
350-359	4	354	588	-	-	-	2	355	575	6	354	3.0	583	87.6
360-369	12	364	633	-	-	-	3	364	633	15	364	3.1	633	45.0
370-379	19	374	718	-	-	-	12	373	704	31	374	3.1	713	69.5
380-389	31	384	779	-	-	-	16	385	772	47	384	2.5	777	58.8
390-399	36	395	835	-	-	-	34	394	815	70	394	2.9	825	63.0
400-409	29	403	874	-	-	-	32	404	891	61	404	2.6	883	68.2
410-419	22	414	934	-	-	-	34	414	960	56	414	2.4	950	73.9
420-429	20	424	1010	-	-	-	32	424	1041	52	424	2.8	1029	79.4
430-439	12	433	1021	-	-	-	27	434	1065	39	433	2.6	1051	82.3
440-449	5	443	1110	-	-	-	10	443	1165	15	443	2.7	1147	85.5
450-459	5	455	1230	-	-	-	5	453	1230	10	454	3.2	1230	143.8
460-469	4	462	1363	-	-	-	3	464	1383	7	463	2.7	1371	107.5
470-479	4	475	1400	-	-	-	-	-	-	4	475	3.5	1400	122.5
480-489	1	480	1450	-	-	-	-	-	-	1	480	-	1450	-
490-499	1	490	1300	-	-	-	-	-	-	1	490	-	1300	-
520-529	1	520	1850	-	-	-	-	-	-	1	520	-	1850	-
TOTAL	210			-			210			420				
MEAN		403	884		-	-		411	937		407	26.2	910	185.9

Table 58. Length composition of commercial whitefish for each seasonal period from area V, 1987.

LENGTH INTERVAL (mm)	WINTER NO.	WINTER MEAN FORK LEN. (mm)	WINTER MEAN DR. WT. (g)	SPRING NO.	SPRING MEAN FORK LEN. (mm)	SPRING MEAN DR. WT. (g)	FALL NO.	FALL MEAN FORK LEN. (mm)	FALL MEAN DR. WT. (g)	TOTAL NO.	TOTAL FORK LENGTH(mm) MEAN	TOTAL FORK LENGTH(mm) SD.	TOTAL DRESSED WEIGHT(g) MEAN	TOTAL DRESSED WEIGHT(g) SD.
340-349	1	348	550	1	347	600	-	-	-	2	348	0.7	575	35.4
350-359	1	358	600	2	352	550	2	353	600	5	353	2.6	580	44.7
360-369	5	362	650	2	366	700	3	366	667	10	364	2.8	665	47.4
370-379	9	374	711	8	374	638	3	373	700	20	374	2.6	680	69.6
380-389	14	384	761	5	383	680	19	384	729	38	384	2.6	734	71.8
390-399	37	395	832	12	396	821	32	395	795	81	395	3.0	816	67.5
400-409	31	404	900	20	405	868	38	404	846	89	404	2.9	870	79.6
410-419	33	414	903	29	414	926	32	415	905	94	414	2.5	911	73.3
420-429	19	424	997	33	424	970	28	423	980	80	424	2.7	980	81.8
430-439	20	434	1080	23	434	1037	24	434	983	67	434	2.6	1031	107.3
440-449	18	444	1119	23	444	1102	13	443	1073	54	444	2.7	1101	79.2
450-459	7	456	1243	15	454	1177	7	453	1093	29	454	2.6	1172	105.7
460-469	4	465	1250	14	465	1300	2	462	1275	20	465	2.8	1288	105.0
470-479	5	474	1300	10	473	1400	2	472	1375	17	473	2.8	1368	140.2
480-489	2	484	1600	9	484	1456	1	480	1250	12	484	3.4	1463	186.0
490-499	1	498	1550	2	493	1550	1	495	1300	4	495	2.4	1488	131.5
500-509	1	500	1550	1	500	1300	2	506	1825	4	503	3.8	1625	272.3
510-519	1	512	1500	1	514	1550	-	-	-	2	513	1.4	1525	35.4
560-569	1	568	2250	-	-	-	-	-	-	1	568	-	2250	-
TOTAL	210			210			209			629				
MEAN		415	957		429	1027		414	908		420	29.4	964	214.1

Table 59. Annual mortality rates for commercial whitefish from each administrative area of Great Slave Lake, 1985.

Area	Age Classes Used	Survival (S)	SE of S	Var. of S	Annual Mortality A
IW	11 - 15	0.5941	.0490	.0024	.4059
IE	11 - 16	0.5595	.0387	.0015	.4405
II	11 - 16	0.6235	.0387	.0015	.3765
III	11 - 16	0.6165	.0423	.0018	.3835
IV	9 - 14	0.5259	.0300	.0009	.4741
V	11 - 16	0.5969	.0279	.0008	.4031

Table 60. Annual mortality rates for commercial whitefish from each administrative area of Great Slave Lake, 1986.

Area	Age Classes Used	Survival (S)	SE of S	Var. of S	Annual Mortality A
IW	9 - 16	0.5912	.0575	.0033	.4088
IE	10 - 15	0.5244	.0251	.0006	.4756
II	9 - 15	0.3971	.0339	.0012	.6021
III	10 - 17	0.5862	.0325	.0011	.4138
IV	11 - 16	0.4363	.0280	.0008	.5637
V	12 - 17	0.5976	.0289	.0008	.4024

Table 61. Annual mortality rates for commercial whitefish from each administrative area of Great Slave Lake, 1987.

Area	Age Classes Used	Survival (S)	SE of S	Var. of S	Annual Mortality A
IW	10 - 17	0.6022	.0233	.0005	.3978
IE	10 - 20	0.4563	.0400	.0016	.5437
II	11 - 18	0.5966	.0328	.0011	.4034
III	10 - 17	0.6096	.0405	.0016	.3904
IV	12 - 15	0.3279	.0606	.0037	.6721
V	13 - 17	0.4651	.0442	.0020	.4651